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- For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.*

(54) Title: PROCESS FOR PRODUCING MICROBIAL FAT OR OIL HAVING LOWERED UNSAPONIFIABLE MATTER CONTENT AND SAID FAT OR OIL

(57) Abstract: A process for producing a crude oil having lowered unsaponifiable matter content and/or ester-type sterol content and comprising a highly unsaturated fatty acid as a constituent fatty acid, characterized in that a microorganism capable of producing a fat or oil comprising an unsaturated fatty acid as a constituent fatty acid is cultured in a medium containing a nitrogen source concentration of 2 to 15% within a culture tank equipped with an agitation impeller satisfying the requirement that the ratio of the diameter of agitation impeller (= d) to the inner diameter of the culture tank (= D) is d/D = 0.30 to 0.6.

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## INTERNATIONAL SEARCH REPORT

International Application No.

PCT/JP 03/13000

A. CLASSIFICATION OF SUBJECT MATTER  
IPC 7 C12P7/64 A23D9/007

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 C12P A23D

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the International search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ, BIOSIS, EMBASE

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	EP 0 957 173 A (SUNTORY LTD) 17 November 1999 (1999-11-17) cited in the application see especially pages 2 and 3 the whole document	1-22
X	PATENT ABSTRACTS OF JAPAN vol. 0184, no. 71 (C-1245), 2 September 1994 (1994-09-02) & JP 6 153970 A (SUNTORY LTD), 3 June 1994 (1994-06-03) cited in the application abstract	1-22
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☒ Further documents are listed in the continuation of box C.☒ Patent family members are listed in annex.

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International Application No

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## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

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